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GA-Z87-HD3 (rev. 1.0)

Intel® Z87 Chipset [f](#) [t](#) [Print](#) | [Microsite](#)

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- Supports 4th Generation Intel® Core™ processors
- GIGABYTE Ultra Durable™ 4 Plus Technology
- GIGABYTE UEFI DualBIOS™
- 15µ gold plated CPU socket
- Multi-GPU Support
- All solid capacitors
- GIGABYTE On/Off Charge™ for USB devices
- Intel® LAN with high ESD Protection

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<p>CPU</p>	<ol style="list-style-type: none"> 1. Support for Intel® Core™ i7 processors/Intel® Core™ i5 processors/Intel® Core™ i3 processors/Intel® Pentium® processors/Intel® Celeron® processors in the LGA1150 package 2. L3 cache varies with CPU <p>(Please refer "CPU Support List" for more information.)</p>
<p>Chipset</p>	<ol style="list-style-type: none"> 1. Intel® Z87 Express Chipset
<p>Memory</p>	<ol style="list-style-type: none"> 1. 4 x 1.5V DDR3 DIMM sockets supporting up to 32 GB of system memory * Due to a Windows 32-bit operating system limitation, when more than 4 GB of physical memory is installed, the actual memory size displayed will be less than the size of the physical memory installed. 2. Dual channel memory architecture 3. Support for DDR3 2933(O.C.)/1600/1333 MHz memory modules 4. Support for non-ECC memory modules 5. Support for Extreme Memory Profile (XMP) memory modules <p>(Please refer "Memory Support List" for more information.)</p>
	<p>Integrated Graphics Processor:</p> <ol style="list-style-type: none"> 1. 1 x D-Sub port

Onboard Graphics	<ol style="list-style-type: none"> 2. 1 x DVI-D port, supporting a maximum resolution of 1920x1200 * The DVI-D port does not support D-Sub connection by adapter. 3. 1 x HDMI port, supporting a maximum resolution of 4096x2160 * Support for HDMI 1.4a version. 4. Maximum shared memory of 1 GB
Audio	<ol style="list-style-type: none"> 1. Realtek® ALC892 codec 2. High Definition Audio 3. 2/4/5.1/7.1-channel 4. Support for S/PDIF In 5. Support for S/PDIF Out
LAN	<ol style="list-style-type: none"> 1. Realtek® GbE LAN chip (10/100/1000 Mbit)
Expansion Slots	<ol style="list-style-type: none"> 1. 1 x PCI Express x16 slot, running at x16 (PCIEX16) (The PCIEX16 slot conforms to PCI Express 3.0 standard.) * For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot. 2. 1 x PCI Express x16 slot, running at x4 (PCIEX4) * The PCIEX4 slot shares bandwidth with all PCI Express x1 slots. All PCI Express x1 slots will become unavailable when a PCIe x4 expansion card is installed. * When installing a x8 or above card in the PCIEX4 slot, make sure to set PCIE Slot Configuration in BIOS Setup to x4. 3. 2 x PCI Express x1 slots (The PCIEX4 and PCI Express x1 slots conform to PCI Express 2.0 standard.) 4. 2 x PCI slots
Multi-Graphics Technology	<ol style="list-style-type: none"> 1. Support for AMD CrossFireX™ technology The PCIEX16 slot operates at up to x4 mode when AMD CrossFireX™ is enabled.
Storage Interface	<p>Chipset:</p> <ol style="list-style-type: none"> 1. 6 x SATA 6Gb/s connectors supporting up to 6 SATA 6Gb/s devices 2. Support for RAID 0, RAID 1, RAID 5, and RAID 10
USB	<p>Chipset:</p> <ol style="list-style-type: none"> 1. Up to 6 USB 3.0/2.0 ports (4 ports on the back panel, 2 ports available through the internal USB header) 2. Up to 8 USB 2.0/1.1 ports (2 ports on the back panel, 6 ports available through the internal USB headers)
Internal I/O	<ol style="list-style-type: none"> 1. 1 x 24-pin ATX main power connector 2. 1 x 8-pin ATX 12V power connector 3. 6 x SATA 6Gb/s connectors 4. 1 x CPU fan header 5. 3 x system fan headers 6. 1 x front panel header 7. 1 x front panel audio header

Connectors	<ol style="list-style-type: none"> 8. 1 x S/PDIF Out header 9. 1 x S/PDIF In header 10. 1 x USB 3.0/2.0 header 11. 3 x USB 2.0/1.1 headers 12. 1 x serial port header 13. 1 x parallel port header 14. 1 x Clear CMOS jumper
Back Panel Connectors	<ol style="list-style-type: none"> 1. 1 x PS/2 keyboard/mouse port 2. 1 x D-Sub port 3. 1 x DVI-D port 4. 1 x HDMI port 5. 4 x USB 3.0/2.0 ports 6. 2 x USB 2.0/1.1 ports 7. 1 x RJ-45 port 8. 6 x audio jacks (Center/Subwoofer Speaker Out/Rear Speaker Out/Side Speaker Out/Line In/Line Out/Microphone)
I/O Controller	<ol style="list-style-type: none"> 1. iTE® I/O Controller Chipip
H/W Monitoring	<ol style="list-style-type: none"> 1. System voltage detection 2. CPU/System temperature detection 3. CPU/System fan speed detection 4. CPU overheating warning 5. CPU/System fan fail warning 6. CPU/System fan speed control <p>* Whether the fan speed control function is supported will depend on the cooler you install.</p>
BIOS	<ol style="list-style-type: none"> 1. 2 x 64 Mbit flash 2. Use of licensed AMI EFI BIOS 3. Support for DualBIOS™ 4. PnP 1.0a, DMI 2.0, SM BIOS 2.6, ACPI 2.0a
Unique Features	<ol style="list-style-type: none"> 1. Support for Q-Flash 2. Support for Xpress Install 3. Support for APP Center <p>* Available applications in APP Center may differ by motherboard model. Supported functions of each application may also differ depending on motherboard specifications.</p> <p>@BIOS EasyTune EZ Setup USB Blocker</p> <ol style="list-style-type: none"> 4. Support for ON/OFF Charge
Bundle Software	<ol style="list-style-type: none"> 1. Norton Internet Security (OEM version) 2. Intel® Rapid Start Technology 3. Intel® Smart Connect Technology 4. Intel® Smart Response Technology
Operating System	<ol style="list-style-type: none"> 1. Support for Windows 8/7

Form Factor	1. ATX Form Factor; 30.5cm x 22.5cm
Remark	<ol style="list-style-type: none">1. Due to different Linux support condition provided by chipset vendors, please download Linux driver from chipset vendors' website or 3rd party website.2. Most hardware/software vendors may no longer offer drivers to support Win9X/ME/2000/XP SP1/SP2. If drivers are available from the vendors, we will update them on the GIGABYTE website.

* The entire materials provided herein are for reference only. GIGABYTE reserves the right to modify or revise the content at anytime without prior notice.

* Advertised performance is based on maximum theoretical interface values from respective Chipset vendors or organization who defined the interface specification. Actual performance may vary by system configuration.

* All trademarks and logos are the properties of their respective holders.

* Due to standard PC architecture, a certain amount of memory is reserved for system usage and therefore the actual memory size is less than the stated amount.

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